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(54) Title: METHODS AND ORGANISMS FOR CONVERTING SYNTHESIS GAS OR OTHER GASEOUS CARBON SOURCES AND METHANOL TO 1,3-BUTANEDIOL

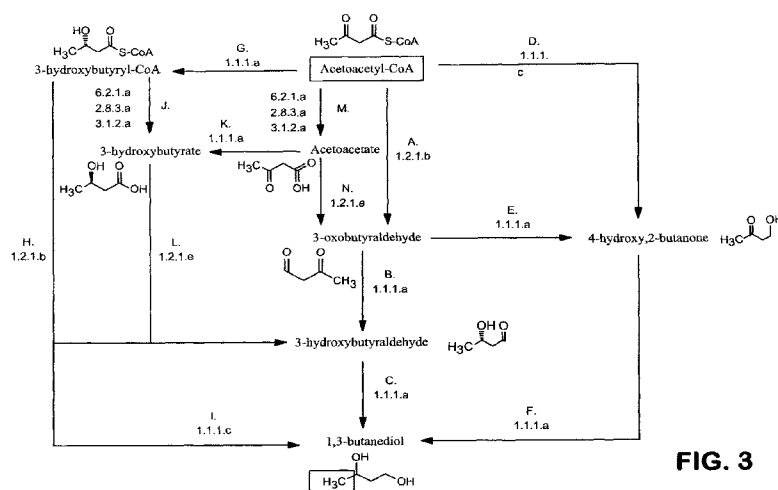


FIG. 3

(57) Abstract: A non-naturally occurring microbial organism having a 1,3-butanediol (1,3-BDO) pathway includes at least one exogenous nucleic acid encoding a 1,3-BDO pathway enzyme or protein expressed in a sufficient amount to produce 1,3-BDO. A method for producing 1,3-BDO that includes culturing the this non-naturally occurring microbial organism under conditions and for a sufficient period of time to produce 1,3-BDO.